What is claimed is:

- 1. Amethod for increasing track density of a disc drive, the disc drive having a read transducer and a write transducer for a first disc surface wherein the write transducer produces a wider written-to track width than a read-from track width of the read transducer, the method comprising steps of:
- (a) writing onto the first disc surface with the write transducer a first plurality of adjacent tracks having a track-to-track spacing substantially equal to the read-from track width of the read transducer; and
 - (b) reading with the read transducer the first plurality of adjacent tracks.
- 2. The method of claim 1, further comprising a step of:
- (c) writing with the write transducer a second plurality of adjacent tracks having a track-to-track spacing substantially equal to (the written-to track width of the write transducer) + (the read-from track width of the read transducer)/2; and
 - (d) reading with the read transducer the second plurality of adjacent tracks.
- 3. The method of claim 1 wherein writing step (a) further comprises (a)(i) moving the write transducer in a single direction when writing to an adjacent track.
- 4. The method of claim 1 wherein the write transducer has a first edge and a second edge, wherein writing step (a) further comprises
- (a)(i) moving the write transducer in a single direction when writing to an adjacent track, wherein the first edge of the write transducer is moved to a position substantially equal to the track width.
- 5. The method of claim 1 wherein writing\step (a) further comprises
- (a)(i) writing a sequential record to a selected number of a plurality of adjacent tracks while moving the write transducer in a single direction between writing to adjacent tracks; and

(a)(ii) placing a guard band after the selected number of a plurality of adjacent tracks.

- 6. The method of claim 6 wherein the placing step (a)(ii) includes placing a guard band having a width of at least one writer width.
- 7. A dişc drive comprising:

a rotating disc assembly having a first disc surface;

a read transducer operating in a transducing relationship to the first disc surface;

a write transducer operating in a transducing relationship to the first disc surface, wherein the write transducer as it writes produces a wider written-to track width than a read-from track wigth of the read transducer; and

a first plurality of adjacent tracks on the first disc surface having a track-totrack spacing substantially equal to the read-from track width of the read transducer.

- 8. The disc drive of claim 7, further comprising a second plurality of adjacent tracks on the first disc surface having a track-to-track spacing substantially equal to (the written-to track width of the write transducer) + (the read-from track width of the read transducer)/2.
- 9. A magnetic disc storage system comprising the disc drive of claim 7, and further comprising:

an information processing system;

a memory system operatively coupled to the information processing system; an input/output system operatively coupled to the information processing system; and

a data channel that operatively coupled the information processing system to the disc drive.

- The disc drive of claim 7 wherein the first plurality of adjacent tracks on the first disc surface having a track-to-track spacing substantially equal to the read-from track width of the read transducer.
- 11. The disc drive of claim 7 wherein the write transducer has a first edge and a second edge, wherein the first plurality of adjacent tracks is produced by moving the write transducer in a single direction when writing to an adjacent track, wherein the first edge of the write transducer is moved to a position substantially equal to the track width after writing a track and before writing a subsequent track.
- 12. The disc drive of claim 7 wherein the write transducer writes a first sequential record to a selected number of a first plurality of adjacent tracks, and writes a second sequential record to a selected number of a first plurality of adjacent tracks, and places a guard band between the first sequential record and the second sequential record.
- 13. A magnetic disc storage system, comprising: a disc drive that includes:

a magnetic disc assembly having a first recording surface; a write transducer positioned proximate to the first recording surface of the magnetic disc for writing information on the first recording surface;

a read transducer positioned proximate to the first recording surface of the magnetic disc for reading information from the first recording surface;

a controller within the disc storage system and coupled to the read and write transducers, wherein the controller positions a center of the write transducer over a target track at a write offset relative to a servo position and the controller positions a center of the read transducer over a target track at a read offset relative to a servo position, and wherein the read offset is different than the write offset.

14. The magnetic disc storage system of claim 13, wherein the disc drive further includes:

a memory within the disc drive and coupled to the controller, where the memory contains a read offset value relative to a servo position of the target track that is different than a write offset value relative to the servo position of the target track.

15. The magnetic disc storage system of claim 13, further comprising:
an information processing system;
a memory system operatively coupled to the information processing system;
an input/output system operatively coupled to the information processing
system; and

a data channel that operatively couples the information processing system to the disc drive.

- 16. The magnetic disc storage system of claim 13, wherein the controller offsets the write transducer from a centerline of the track during the write operation.
- 17. The magnetic disc storage system of claim 13, wherein the controller moves the write transducer in a single direction when writing to the disc, and the controller offsets the write transducer from a centerline of the track during the write operation.
- 18. The magnetic disc storage system of claim 17, wherein the controller offsets the write transducer from a centerline of the track during the write operation to a position where one edge of the write transducer is positioned substantially at the track edge of the previously written track.
- 19. The magnetic disc storage system of claim 13 wherein the controller writes a first sequential record to a first data band having a selected number of tracks; and

writes a second sequential record to a second data band having a selected number of tracks.

- 20. The magnetic disc storage system of claim 19 wherein the controller leaves a guard band between the first data band and the second data band.
- 21. The magnetic disc storage system of claim 13 wherein the controller recognizes a data placed in a format of a sequential record.
- 22. A disc drive comprising:

a disc having a first recording surface;

a write transducer positioned proximate to the first recording surface of the magnetic disc for writing information on the first recording surface;

a read transducer positioned proximate to the first recording surface of the magnetic disc for reading information from the first recording surface; and means for increasing track density of the disc drive.

- 23. The disc drive of claim 20 wherein the means for increasing track density includes a controller coupled to the read and write transducers, wherein the controller positions a center of the write transducer over a target track at a write offset relative to a servo position and the controller positions a center of the read transducer over a target track at a read offset relative to a servo position, and wherein the read offset is different than the write offset.
- 24. The magnetic disc drive of claim 23, wherein the disc drive further includes a memory coupled to the controller, where the memory contains a read offset value relative to a servo position of the target track that is different than a write offset value relative to the servo position of the target track.